

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
30 October 2003 (30.10.2003)

PCT

(10) International Publication Number  
**WO 2003/088806 A3**

(51) International Patent Classification<sup>7</sup>: **A61B 10/00**

(21) International Application Number:  
PCT/US2003/010987

(22) International Filing Date: 11 April 2003 (11.04.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/373,190 16 April 2002 (16.04.2002) US  
10/271,850 15 October 2002 (15.10.2002) US  
10/272,314 15 October 2002 (15.10.2002) US

(71) Applicant (for all designated States except US): **VIVANT MEDICAL, INC.** [US/US]; 1916 A Old Middlefield Way, Mountain View, CA 94043 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **SU, Ted** [US/US];

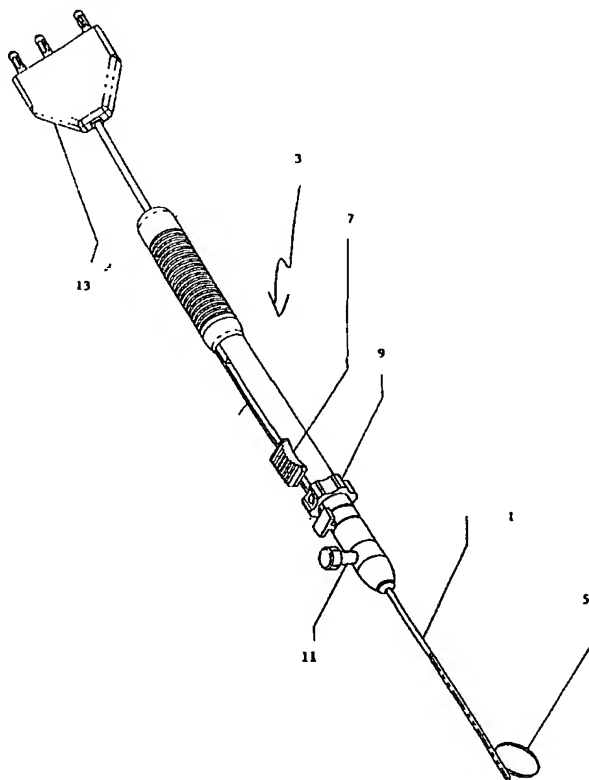
50 E. Middlefield Road, #13, Mountain View, CA 94043 (US). **TUROVSKIY, Roman** [US/US]; 240 North Lake Merced Hills, San Francisco, CA 94132 (US). **KIM, Steven** [US/US]; 2029 Crist Drive, Los Altos, CA 94024 (US). **PRAKASH, Mani** [IN/US]; 576 Virginia Avenue, Campbell, CA 95008 (US).

(74) Agents: **HSIEH, Arthur, S.** et al.; Morrison & Foerster, LLP, 755 Page Mill Road, Palo Alto, CA 94304-1018 (US).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

[Continued on next page]

(54) Title: **LOCALIZATION ELEMENT WITH ENERGIZED TIP**



(57) Abstract: This invention is an improved tissue-localizing device with an electrically energized locator element (5) for fixedly yet removably marking a volume of tissue containing a suspect region for excision

WO 2003/088806 A3



(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(88) Date of publication of the international search report:  
15 April 2004

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

**Published:**

— *with international search report*

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/10987

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A61B 10/00  
US CL : 600/564

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
U.S. : 600/564, 434, 431,435; 604/22,164,264,117; 128/899; 606/185,116,139,159

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
WEST: electrocautery, RF, AC, sleeve, marker, breast, tissue, loop, biopsy, remove, locator

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X,P	US 6,405,733 B1 (FOGARTY et al) 18 June 2002, see whole document.	1-7,9-14,24-28,30,31
Y	US 5,720,718 A (ROSEN et al) 24 February 1998, see whole document.	15,16,18-23,29

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier application or patent published on or after the international filing date	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search

08 December 2003 (08.12.2003)

Date of mailing of the international search report

30 JAN 2004

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

Facsimile No. (703)305-3230

Authorized officer

Brian Szmal

Telephone No. (703) 308-0858